Sub Region RTEP Mid-Atlantic Committee
PEPCO Supplemental Projects

October 19, 2023

Needs

Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process

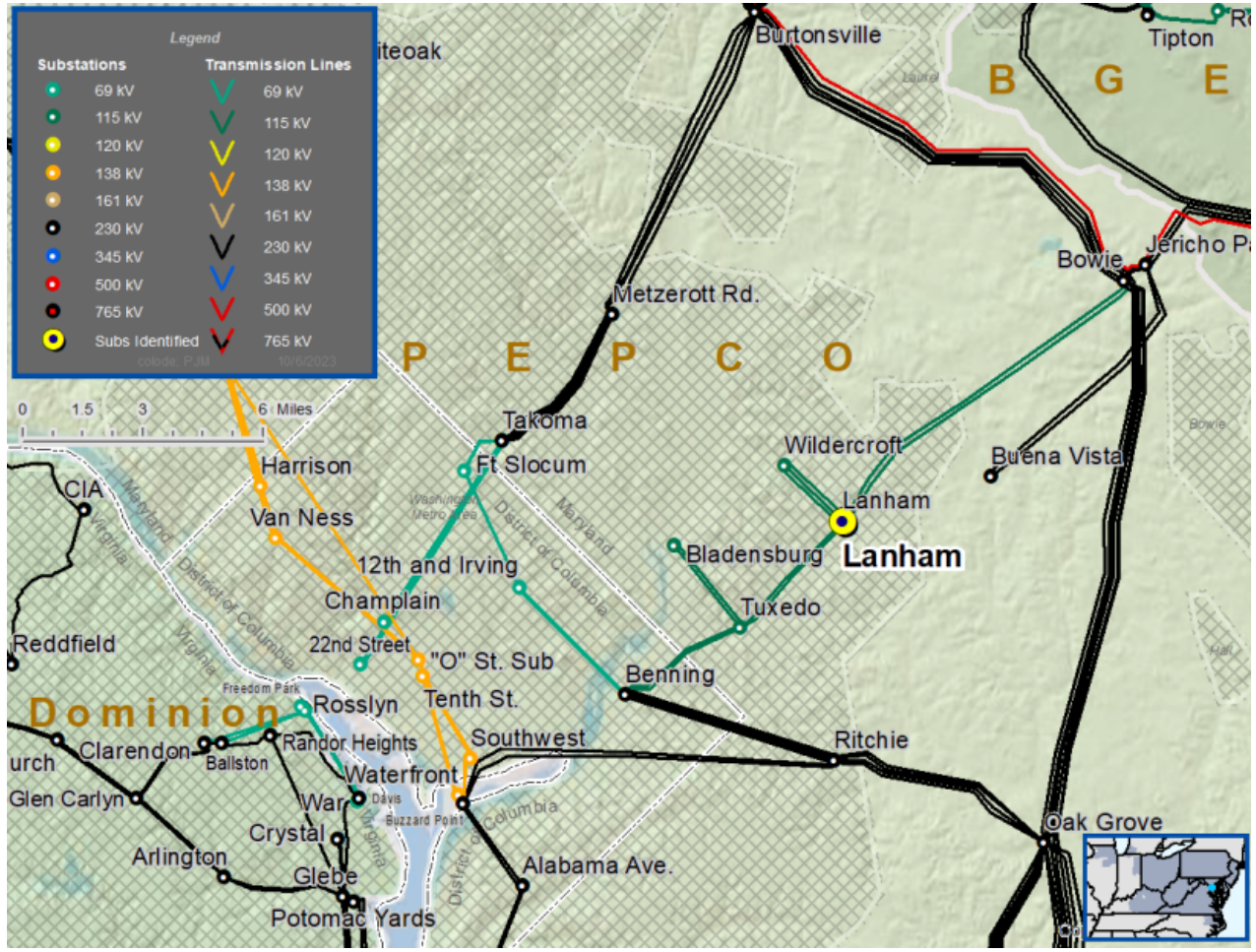
Need Number: PEP-2023-011

Process Stage: Need Meeting 10/19/2023

Project Driver:
Equipment Material Condition, Performance and Risk.

Specific Assumption Reference:
• Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions
• Programmatic review and/or replacement of breakers, relays, wood poles, cables, etc.

Problem Statement:
115kV circuit breaker 2A at Lanham substation was installed in 1962. It is in deteriorating condition, has a lack of replacement parts, and has elevated maintenance cost.



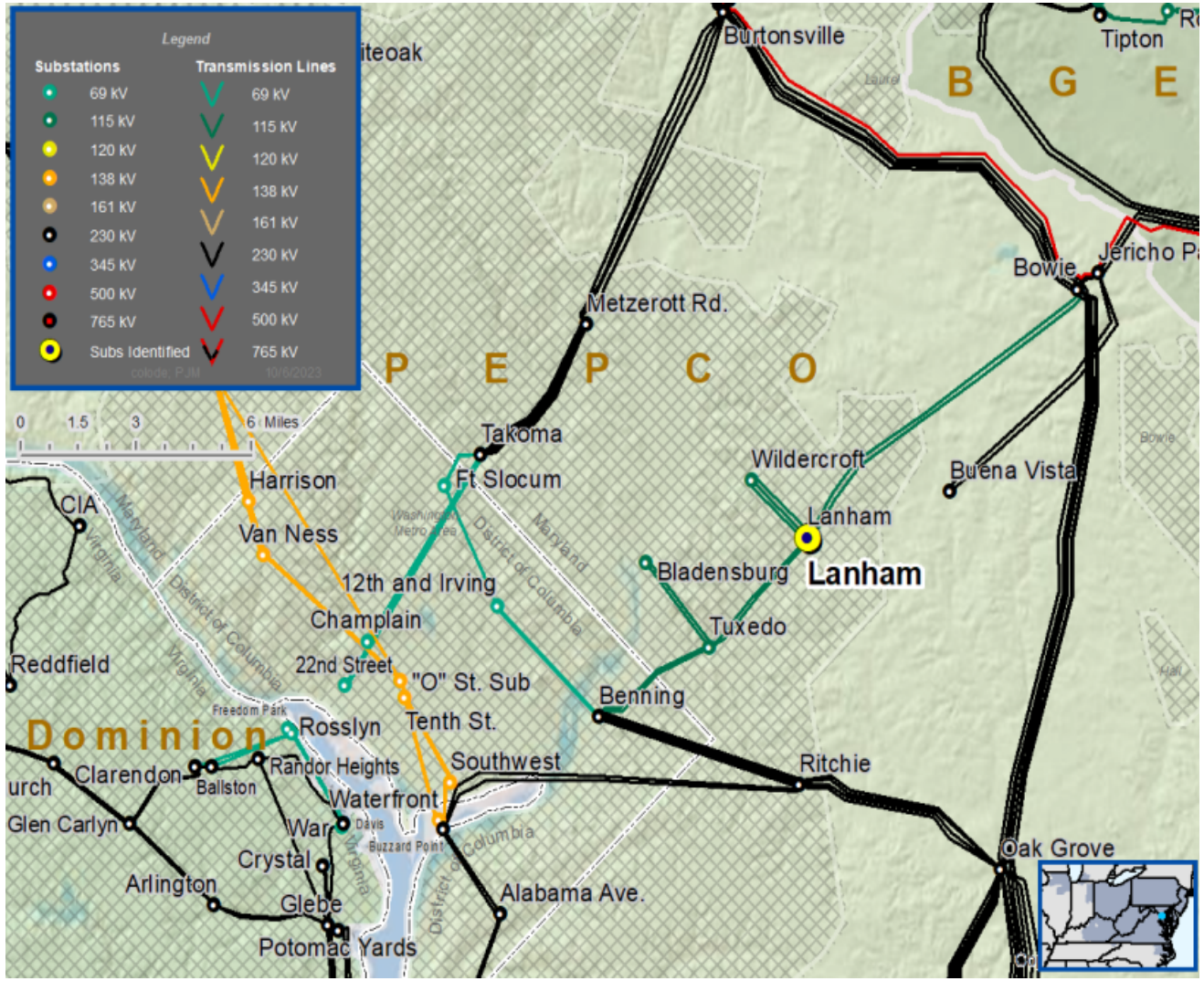
Need Number: PEP-2023-012

Process Stage: Need Meeting 10/19/2023

Project Driver:
Equipment Material Condition, Performance and Risk.

Specific Assumption Reference:
• Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions
• Programmatic review and/or replacement of breakers, relays, wood poles, cables, etc.

Problem Statement:
115kV circuit breaker 3A at Lanham substation was installed in 1964. It is in deteriorating condition, has a lack of replacement parts, and has elevated maintenance cost.



Solutions

Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process

PEPCO Transmission Zone M-3 Process
Buzzard Point 7TS Breaker Replacement

Need Number: PEP-2023-006

Process Stage: Solutions Meeting 10/19/2023

Previously Presented:

Need Meeting 09/14/2023

Project Driver:

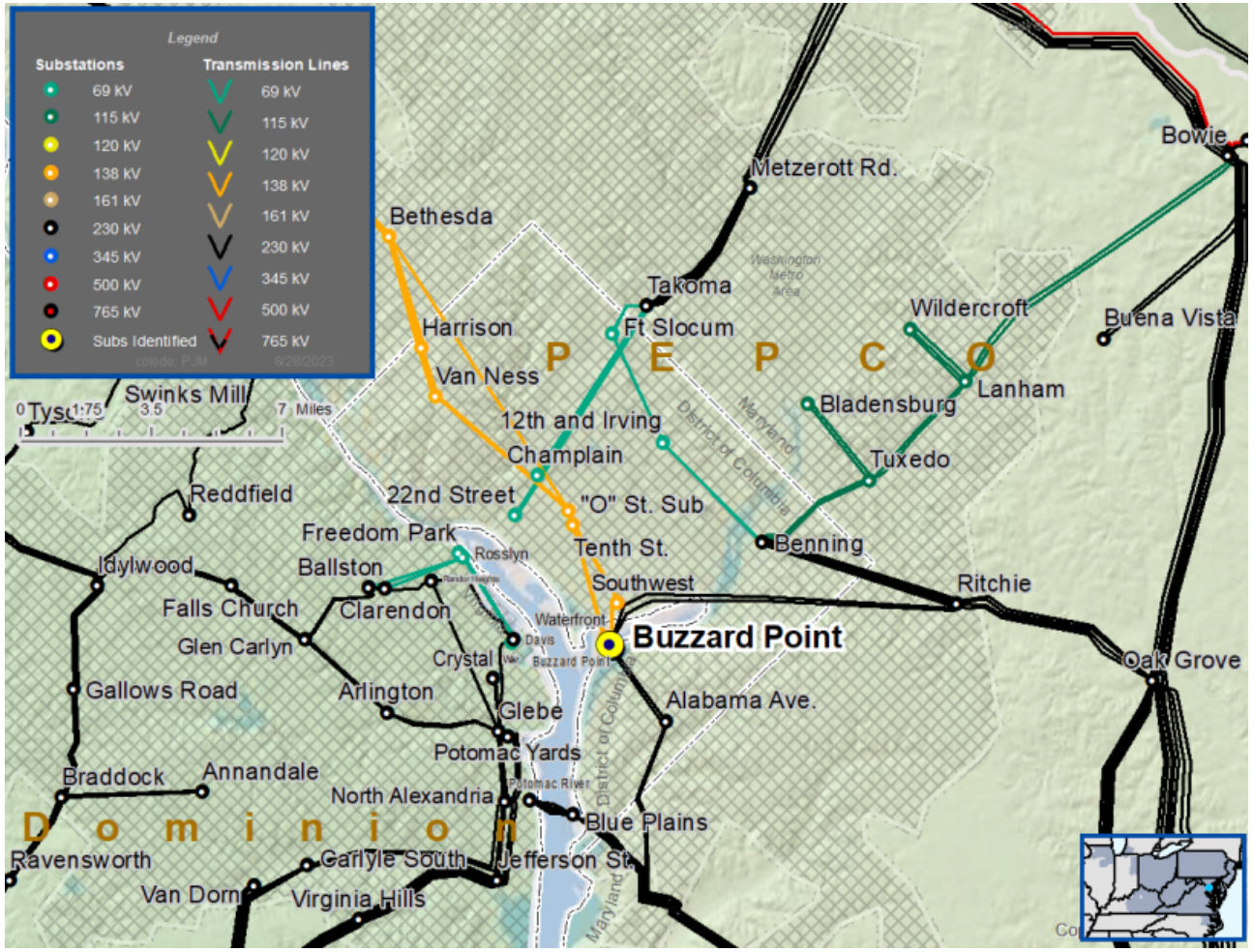
Equipment Material Condition, Performance and Risk.

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions.
- Programmatic review and/or replacement of breakers, relays, wood poles, etc.

Problem Statement:

138kV circuit breaker 7TS at Buzzard Point substation was installed in 1972. It is in deteriorating condition, has a lack of replacement parts, and has elevated maintenance cost.



PEPCO Transmission Zone M-3 Process
Buzzard Point 7TS Breaker Replacement

Need Number: PEP-2023-006

Process Stage: Solutions Meeting 10/19/2023

Proposed Solution:

Replace the existing 138kV oil circuit breaker 7TS at Buzzard Point

Total estimated cost: $675K

Existing rating: 1600A, 40kA

Proposed rating: 3000A, 63kA

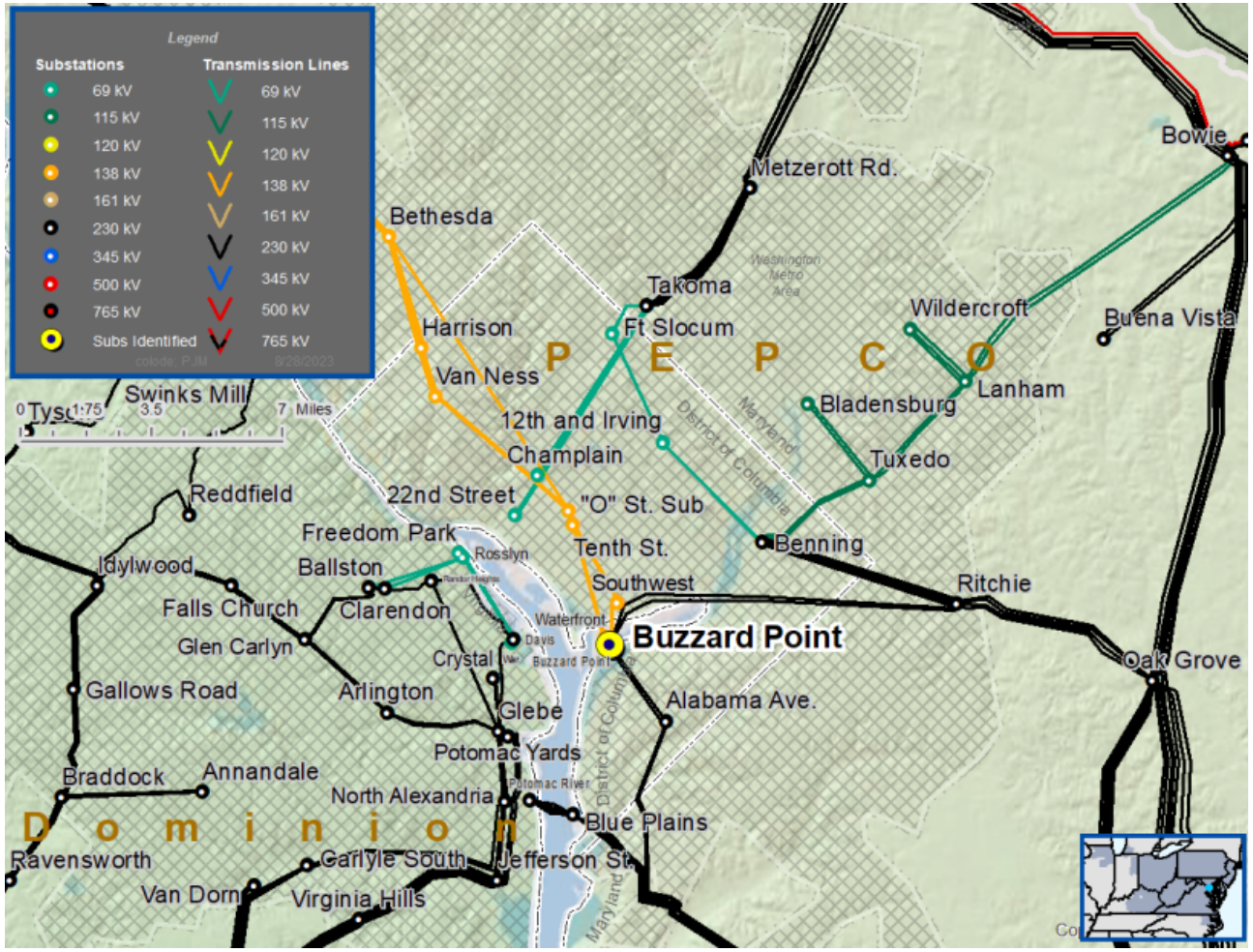
Alternatives Considered:

No feasible alternatives available

Projected In-Service: 12/1/2024

Project Status: Engineering

Model: RTEP 2027



PEPCO Transmission Zone M-3 Process
Tuxedo 1B Breaker Replacement

Need Number: PEP-2023-007

Process Stage: Solutions Meeting 10/19/2023

Previously Presented:

Need Meeting 09/14/2023

Project Driver:

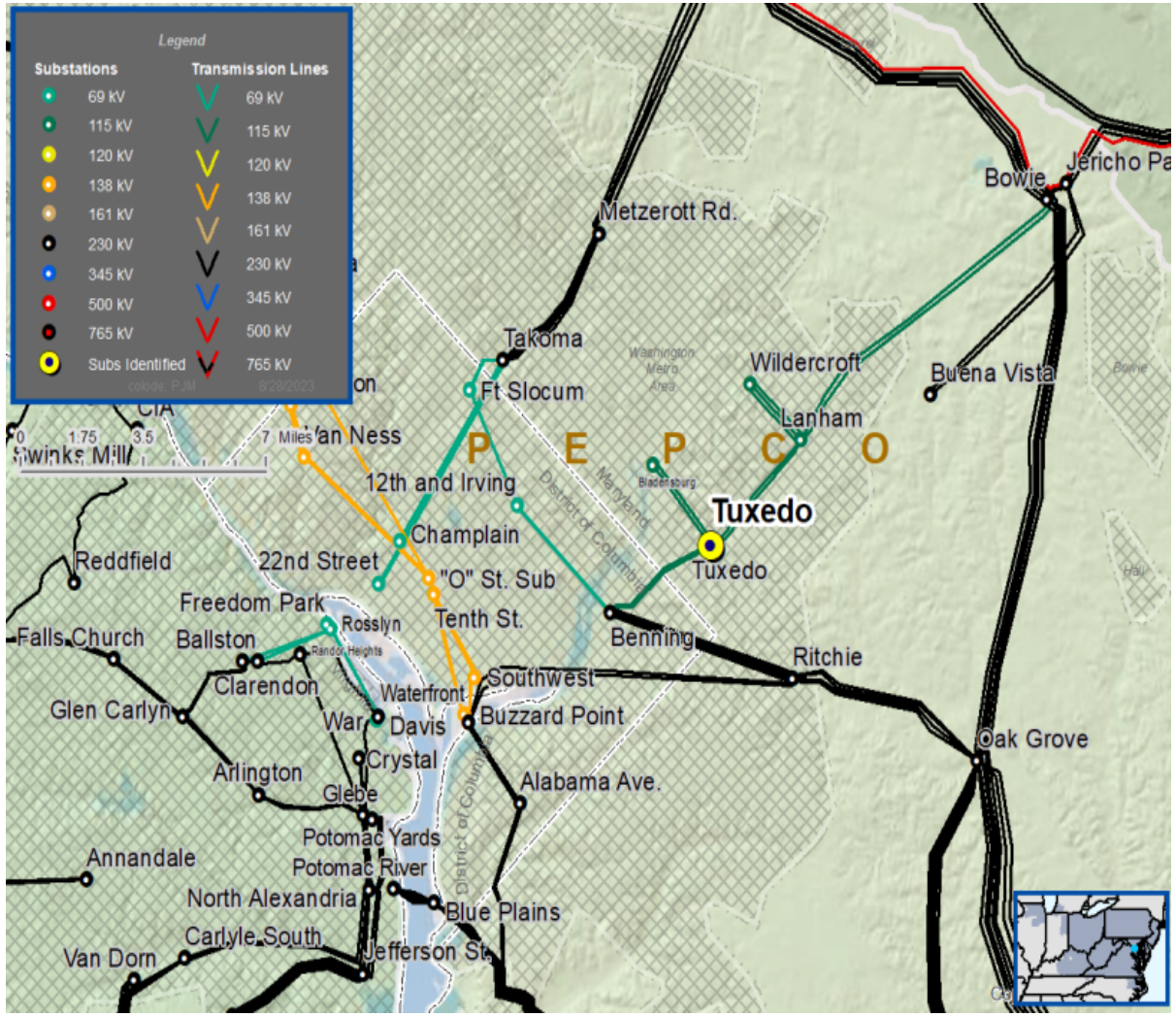
Equipment Material Condition, Performance and Risk.

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions.
- Programmatic review and/or replacement of breakers, relays, wood poles, etc.

Problem Statement:

115kV circuit breaker 1B at Tuxedo substation was installed in 1962. It is in deteriorating condition, has a lack of replacement parts, and has elevated maintenance cost.



PEPCO Transmission Zone M-3 Process
Tuxedo 1B Breaker Replacement

Need Number: PEP-2023-007

Process Stage: Solutions Meeting 10/19/2023

Proposed Solution:

Replace the existing 115kV oil circuit breaker 1B at Tuxedo

Estimated cost: $675K

Existing rating: 1200A, 25.1kA

Proposed rating: 3000A, 63kA

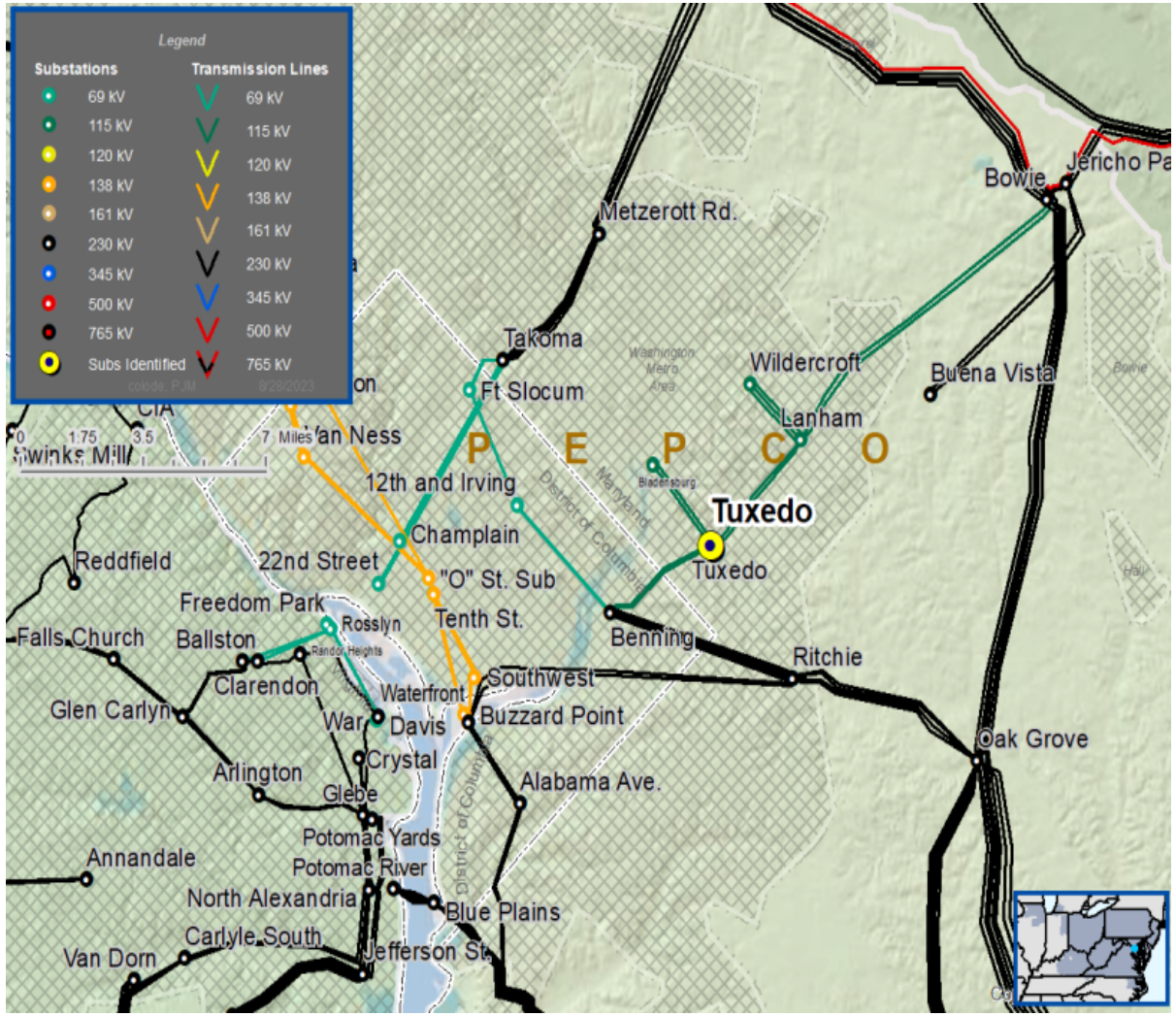
Alternatives Considered:

No feasible alternatives available

Projected In-Service: 3/1/2024

Project Status: Engineering

Model: RTEP 2027



PEPCO Transmission Zone M-3 Process
Tuxedo 2B Breaker Replacement

Need Number: PEP-2023-008

Process Stage: Solutions Meeting 10/19/2023

Previously Presented:

Need Meeting 09/14/2023

Project Driver:

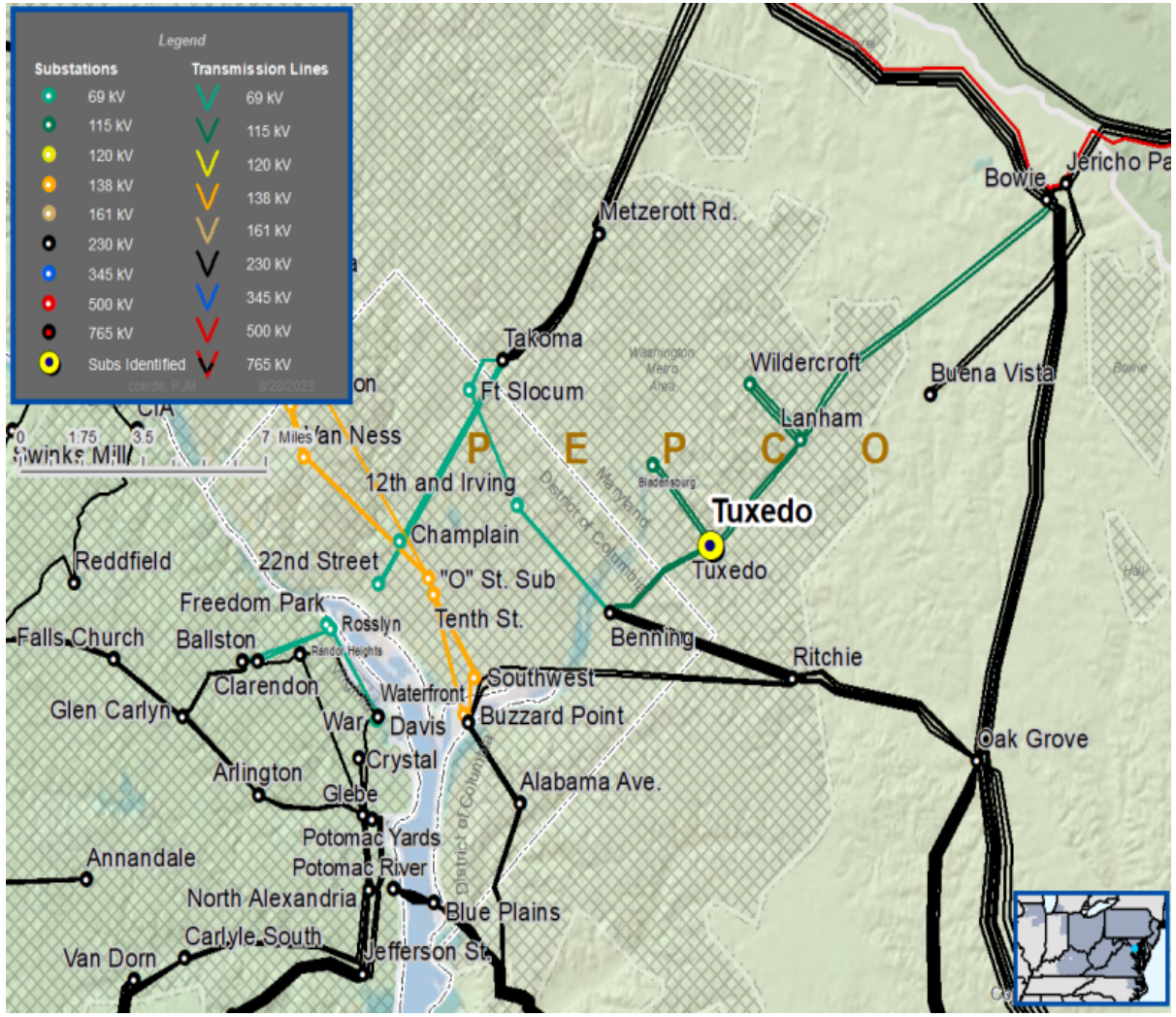
Equipment Material Condition, Performance and Risk.

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions.
- Programmatic review and/or replacement of breakers, relays, wood poles, etc.

Problem Statement:

115kV circuit breaker 2B at Tuxedo substation was installed in 1962. It is in deteriorating condition, has a lack of replacement parts, and has elevated maintenance cost.



PEPCO Transmission Zone M-3 Process
Tuxedo 2B Breaker Replacement

Need Number: PEP-2023-008

Process Stage: Solutions Meeting 10/19/2023

Proposed Solution:

Replace the existing 115kV oil circuit breaker 2B at Tuxedo

Estimated cost: $675K

Existing rating: 1200A, 25.1kA

Proposed rating: 3000A, 63kA

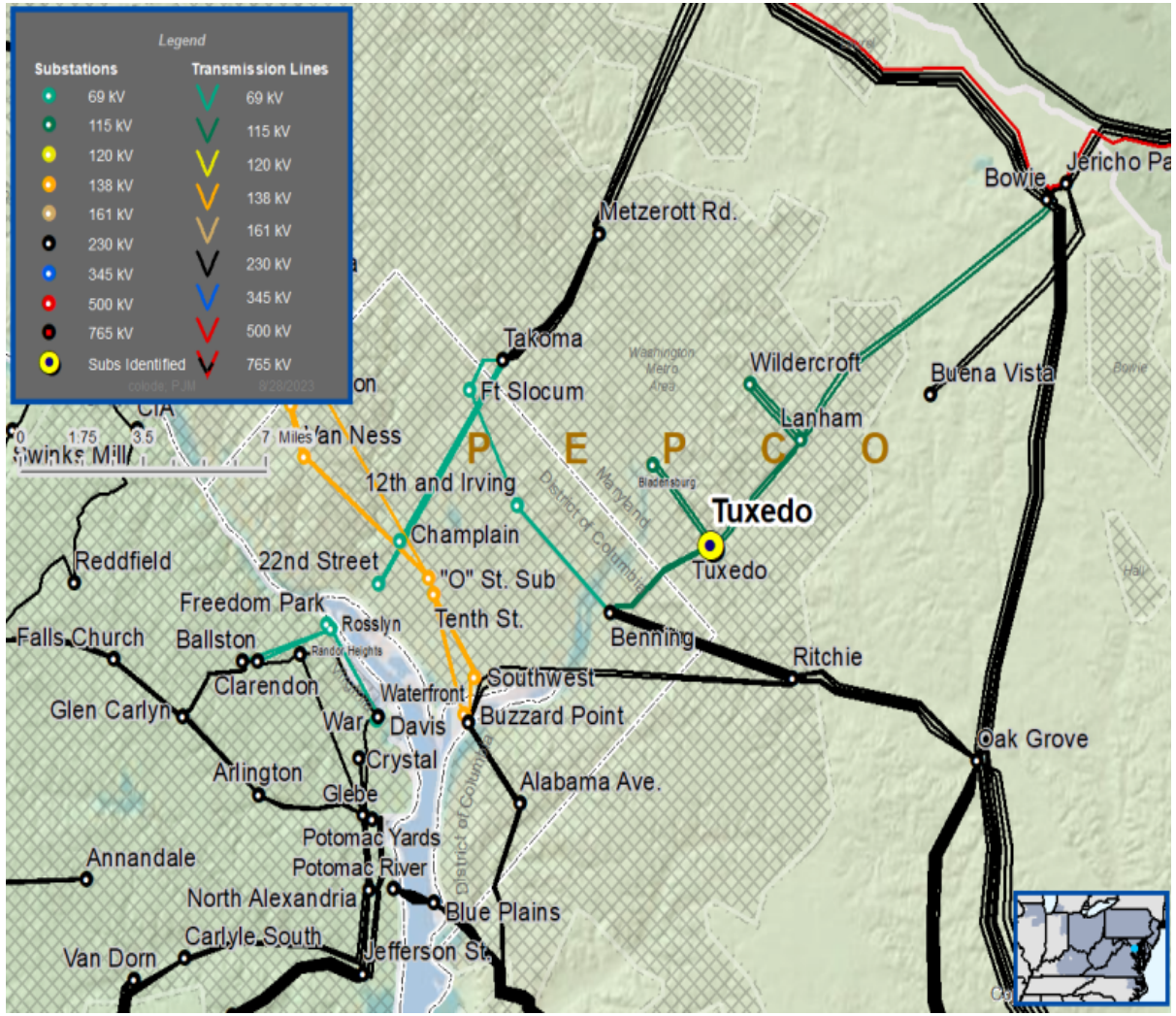
Alternatives Considered:

No feasible alternatives available

Projected In-Service: 3/1/2024

Project Status: Engineering

Model: RTEP 2027



PEPCO Transmission Zone M-3 Process
Tuxedo 3B Breaker Replacement

Need Number: PEP-2023-009

Process Stage: Solutions Meeting 10/19/2023

Previously Presented:

Need Meeting 09/14/2023

Project Driver:

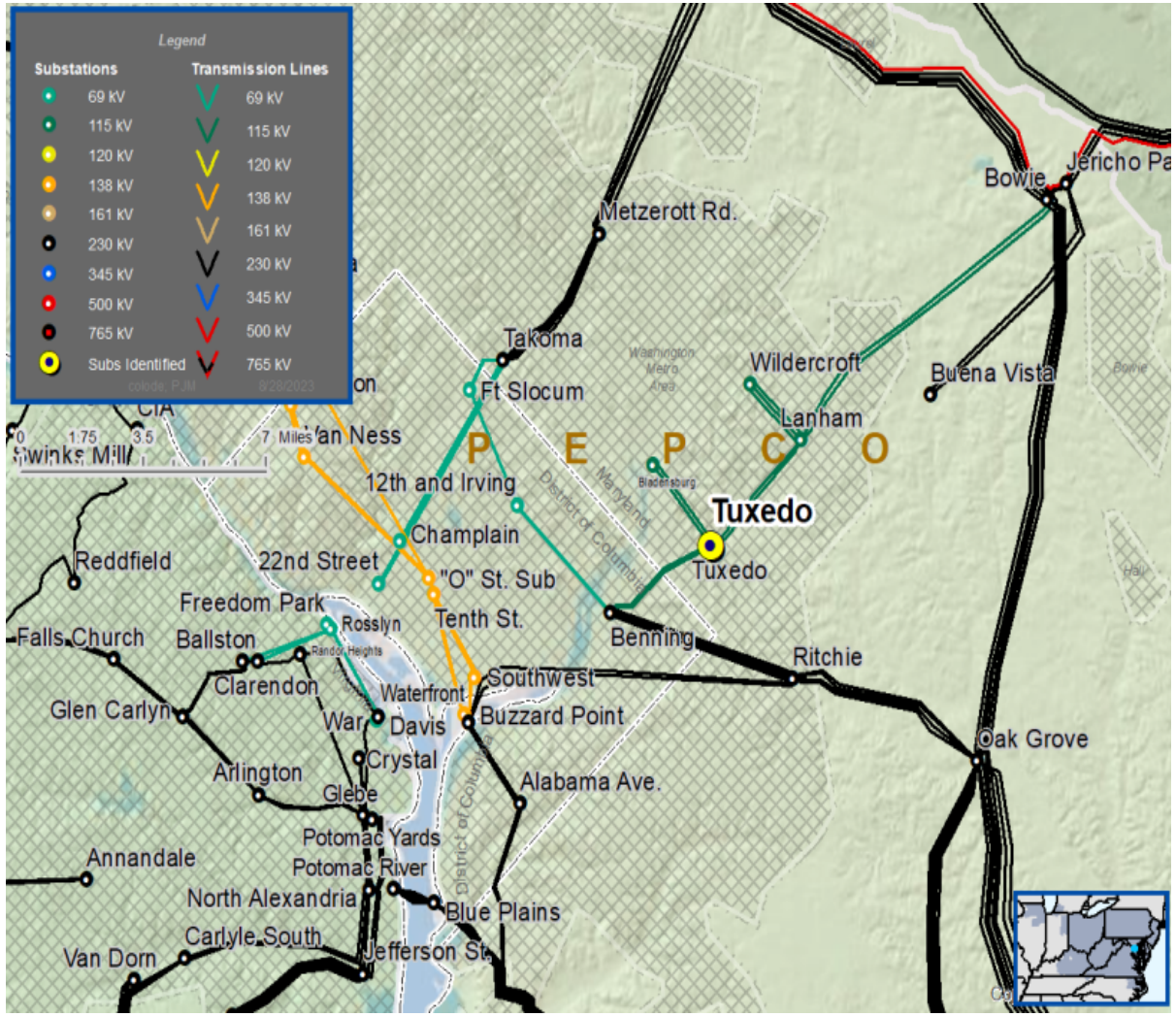
Equipment Material Condition, Performance and Risk.

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions.
- Programmatic review and/or replacement of breakers, relays, wood poles, etc.

Problem Statement:

115kV circuit breaker 3B at Tuxedo substation was installed in 1961. It is in deteriorating condition, has a lack of replacement parts, and has elevated maintenance cost.



PEPCO Transmission Zone M-3 Process
Tuxedo 3B Breaker Replacement

Need Number: PEP-2023-009

Process Stage: Solutions Meeting 10/19/2023

Proposed Solution:

Replace the existing 115kV oil circuit breaker 3B at Tuxedo

Estimated cost: $675K

Existing rating: 1200A, 25.1kA

Proposed rating: 3000A, 63kA

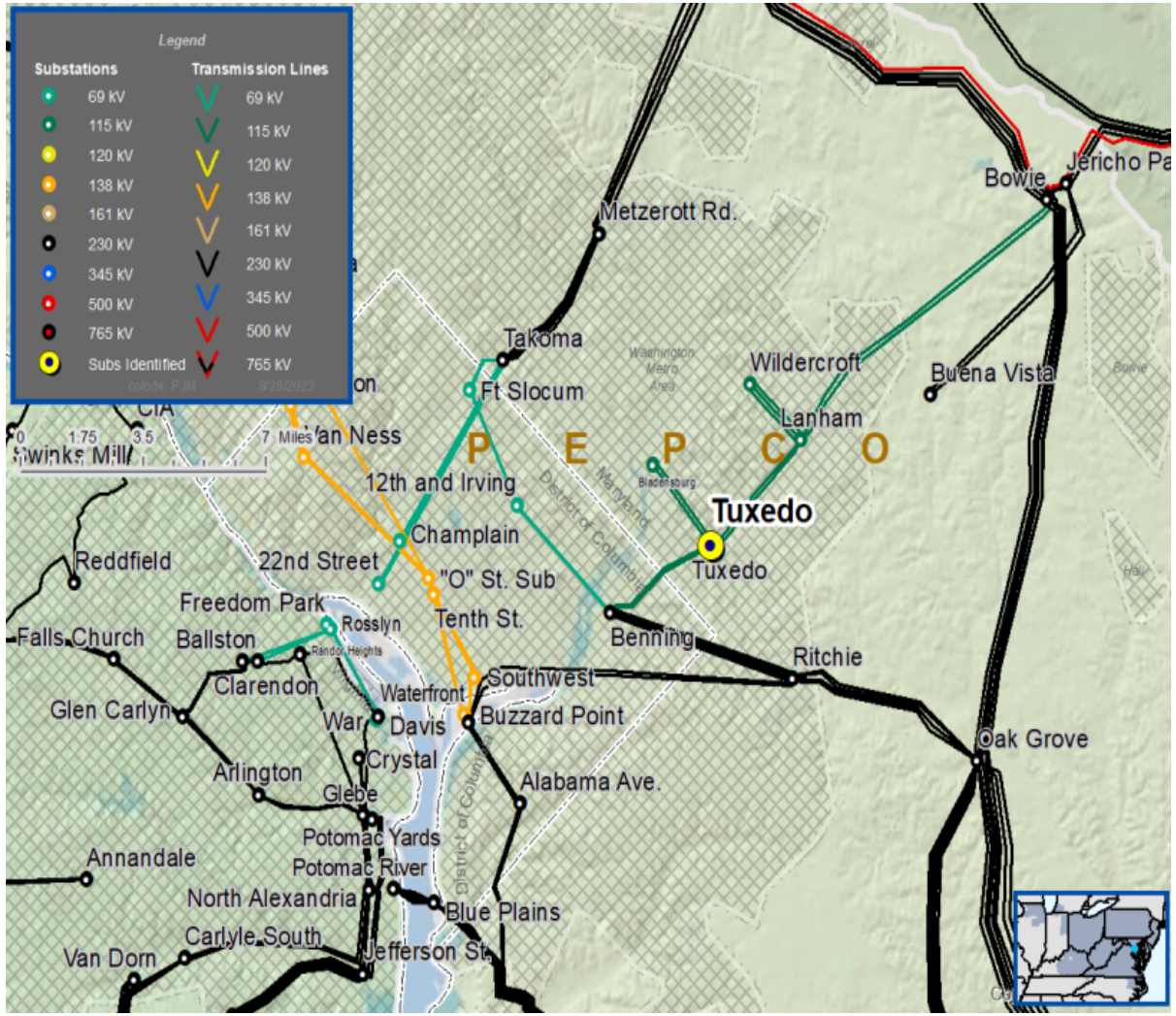
Alternatives Considered:

No feasible alternatives available

Projected In-Service: 3/1/2024

Project Status: Engineering

Model: RTEP 2027



PEPCO Transmission Zone M-3 Process
Tuxedo 4B Breaker Replacement

Need Number: PEP-2023-010

Process Stage: Solutions Meeting 10/19/2023

Previously Presented:

Need Meeting 09/14/2023

Project Driver:

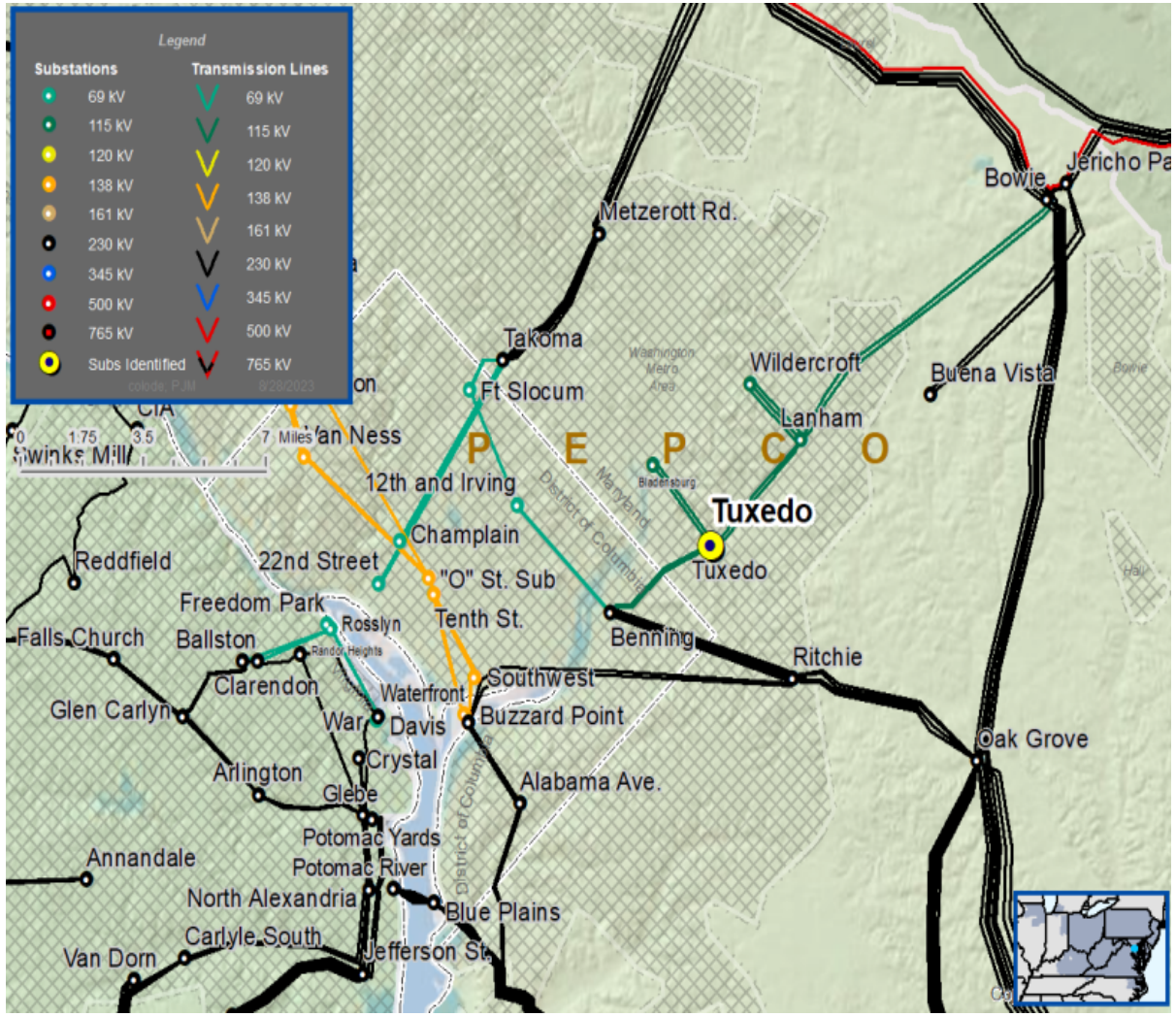
Equipment Material Condition, Performance and Risk.

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions.
- Programmatic review and/or replacement of breakers, relays, wood poles, etc.

Problem Statement:

115kV circuit breaker 4B at Tuxedo substation was installed in 1961. It is in deteriorating condition, has a lack of replacement parts, and has elevated maintenance cost



PEPCO Transmission Zone M-3 Process
Tuxedo 4B Breaker Replacement

Need Number: PEP-2023-010

Process Stage: Solutions Meeting 10/19/2023

Proposed Solution:

Replace the existing 115kV oil circuit breaker 4B at Tuxedo

Estimated cost: $675K

Existing rating: 1200A, 25.1kA

Proposed rating: 3000A, 63kA

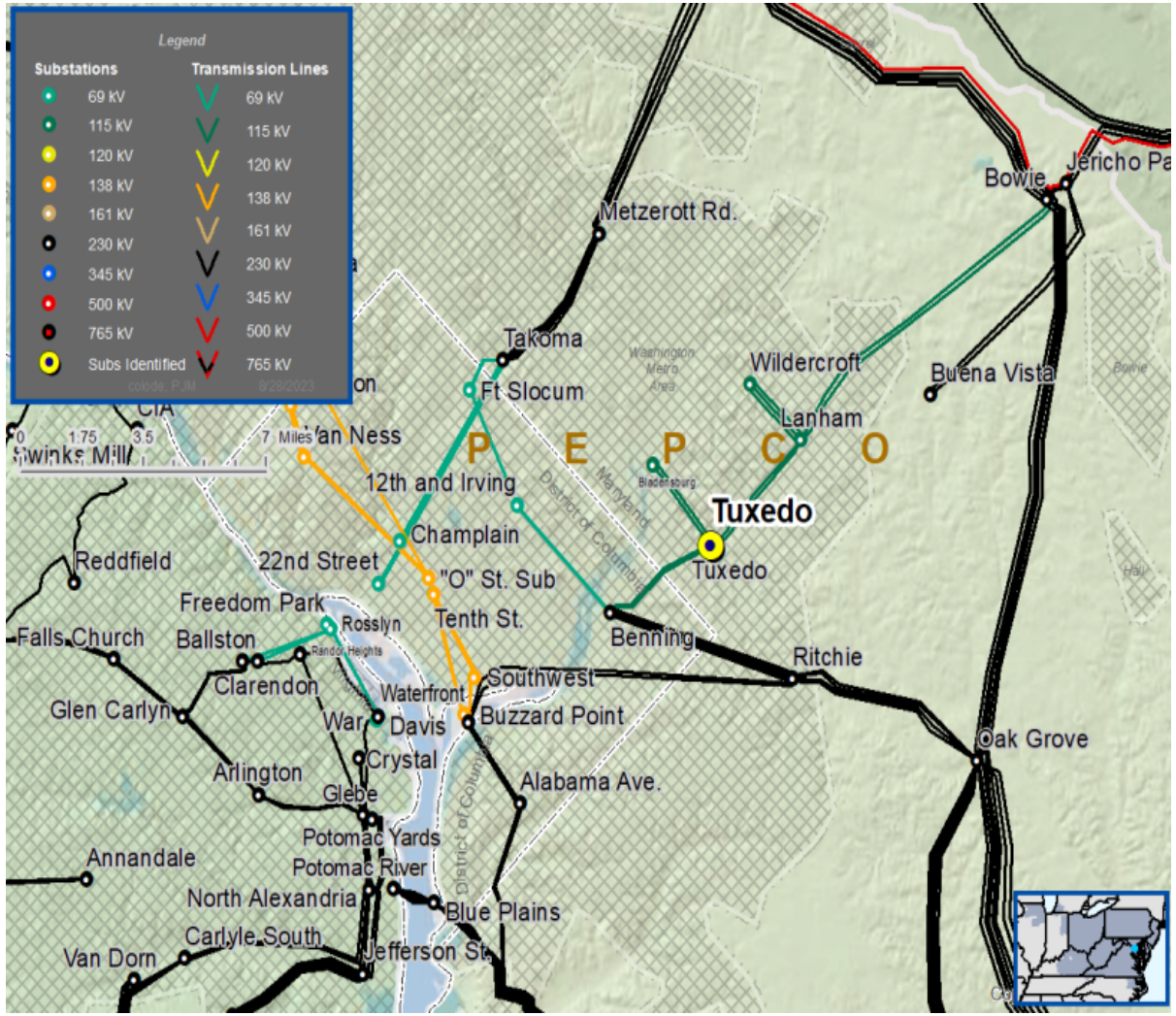
Alternatives Considered:

No feasible alternatives available

Projected In-Service: 3/1/2024

Project Status: Engineering

Model: RTEP 2027



Questions?

Appendix

High level M-3 Meeting Schedule

Assumptions

Activity	Timing
Posting of TO Assumptions Meeting information	20 days before Assumptions Meeting
Stakeholder comments	10 days after Assumptions Meeting

Needs

Activity	Timing
TOs and Stakeholders Post Needs Meeting slides	10 days before Needs Meeting
Stakeholder comments	10 days after Needs Meeting

Solutions

Activity	Timing
TOs and Stakeholders Post Solutions Meeting slides	10 days before Solutions Meeting
Stakeholder comments	10 days after Solutions Meeting

Submission of Supplemental Projects & Local Plan

Activity	Timing
Do No Harm (DNH) analysis for selected solution	Prior to posting selected solution
Post selected solution(s)	Following completion of DNH analysis
Stakeholder comments	10 days prior to Local Plan Submission for integration into RTEP
Local Plan submitted to PJM for integration into RTEP	Following review and consideration of comments received after posting of selected solutions

Revision History

10/9/2023 – V1 – Original version posted to pjm.com